highways

Location: infrastructure\highways

Description
This layer consists of the centerline of major roadways, or numbered highways, including evacuation network routes. The layer has arc features only.

Source
This shapefile was initially created February 2001 by GIS staff from the **roads** shapefile. All roads of **kind** = major were saved as **roadsmajor** shapefile. The source for the original **roads** follows:

Camp Dresser & McKee Inc. (GIS consultant for Bay County) was contracted in 1995 by Bay County to provide aerial photography and develop a base map from the photos for all of Bay County. Camp Dresser & McKee Inc. (CDM), in turn, contracted with Aerial Cartographics of America to perform the aerial photography and base map creation. Black and white (1:3000 scale) aerial photography was obtained during the 1995 spring flying season. The aerial photography had an average of 60% forward overlap consisting of approximately eleven flight lines flown north to south. Stereo photographic coverage was obtained for the entire county. The aerial photography was obtained under the direct supervision of a photogrammetrist certified by the American Society of Photogrammetry and Remote Sensing. A set of 9' x 9" photographic prints and diapositives were produced for map production purposes. Twelve GPS horizontal ground control points within the county were obtained; the control point locations are photo identifiable points accessible using a two wheel drive vehicle. The horizontal GPS ground control points were established to an accuracy of second order class II control. All survey work was performed under the direct supervision of a Land Surveyor licensed in the State of Fl. Approximately 140 stereo photographic models were used to create the base map features. The base map compilation consisted of centerline of roadways, centerline of railways, edge of standing water bodies, rivers, streams and major transmission lines. CDM guaranteed the photogrammetric GIS base map shall be on the NAD 83 datum with 90% of the well defined planimetric features located within **5 feet** of their true horizontal location and the remaining 10% not in error of more than 10 feet. The final base map digital files were edited and delivered to Bay County in AutoCAD release 12 DWG file format on September 1996 (on CD-ROM). The AutoCAD .dwg files (**bayroads.dwg**) were converted to ESRI coverages (**roads**) on February 1998 using ArcCAD software. On May 1998 the items and values for **name**, **alias**, and **kind** were added to the cover using the 1994 MAPSource Street Atlas of Bay County, FL as a source.

In August 2001, road segments were merged so that numbered roads were only one segment (in ArcView, Union features). The following fields were dropped: **kind**, branchid, surface, classifica, fed, fdpre, ftpre, streetname, streettype, suffixdir, namesource, leftfrom, rightfrom, leftto, rightto, leftzone, rightzone, update. **Full_name** attribute was changed to reflect County (CR), State (SR), or US highways. The name of the shapefile was changed to **roads_hwy**.

In November 2001, Bay County GIS staff converted the shapefile to a coverage and unmerged roads, splitting roads at each intersection (in ArcEdit using intersectarcs all); **miles** were updated. Users have the option of using these unmerged roads in the coverage or using the merged roads in the shapefile.

In June 2002, Bay County GIS staff edited **ownership** field for some roadways which still had lingering questions; do not expect any more changes to **ownership** field. Converted to new coverage.

Bay County GIS staff added a field for hurricane evacuation network routes **evac_rt**. Values were entered based on an evacuation network posted on the website http://bcem.co.bay.fl.us/evac_map_network.html and on a 1997 **network** layer from Post, Buckley, Shoe, & Jernigan (PBSJ). For more details, **see network.doc** file. The **evac_rt** field includes all of FRONT BEACH RD as an evacuation route and excludes SR 20, SR 22, and STAR AV.

In July 2002, GIS staff changed layer name from **roads_hwy** to **highways**.

This data is provided with the understanding that the conclusions drawn from such information are solely the responsibilities of the user. The GIS data is not a legal representation of the features depicted, and any assumption of the legal status of this data is hereby disclaimed. Errors or omissions should be reported to the Bay County GIS Division 850-784-6171.

Attribute Table Structure

Item Name	Width	Output	Type	Decimals
miles	10	10	N	2
ownership	10	10	C	-
full_name	40	40	C	-

alias	50	50	C	-
evac_rt	5	5	C	-

Attributes

miles
Mileage computed using length divided by 5280.
NOTE: The miles for some roads (US 231, US 98, ALT US 98, Thomas Dr, Hutchison Blvd, and SR 77) will not be accurate due to double arcs representing double lanes.

ownership
Road ownership by either US, state, county, city, private, or trail indicating who is responsible for maintenance*; taken from AutoCAD dwg files, USGS quadrangle maps, and county lists.

COUNTY = Bay County	STATE = FDOT	US = Federal	GC = Gulf County
PC = Panama City	PCB = Panama City Beach	CW = Callaway	

* US highways are maintained by the Florida Department of Transportation (FDOT)

full_name
Highway or route number: CR = County Road   SR = State Road   US = United States Highway

alias
Alternative name; in some cases, same as **full_name.**

evac_rt
Evacuation network route, designated as Yes or No values.
Designated (Yes) evacuation routes are:

FRONT BEACH RD	CR 388	CR 2321	US 231
THOMAS DR	CR 390	SR 77	US 98
23RD ST (SR 368)	SR 390	SR 79	
EAST AV (CR & SR 389)			